REMARKS

Discussion of Claim Rejections under 35 USC 101

Claim 13 was rejected under 35 USC 101 for not being tied to a particular machine and not performing a transformation.

In response, Applicant amended Claim 13 to tie each step to a particular processing unit for a specific performance of a transformation. Thus, the claim rejection should be withdrawn.

Discussion of Claim Rejections under 35 USC 103

Claims 1-7 and 12-26 were rejected under 35 USC 103(a) as being unpatentable over Guenebaud (US Pub. No. 2006/0053457) in view of Kudumakis (US Pub. No. 2003/0128845).

In response, Applicant amended Claims 1, 13 and 21 and respectfully disagrees with the Examiner.

Claim 1

The amended Claim 1 provides that

A distorted contents generating apparatus comprising:

an initial value generation unit for generating an initial value used to generate a random number for a distorting filter;

a random number generation unit for generating a random number for the distorting based on the initial value transmitted from the initial value generation unit;

a filter generation unit for generating a distorting filter based on the initial value and the random number;

a data filtering unit for distorting ~~an~~ original contents into distorted contents by filtering the original contents with the distorting filter;

an encoding unit for encoding the distorted contents output from the data filtering unit;

a signal insertion unit for encrypting the initial value information generated by the initial value generation unit and inserting the encrypted filter initial value into the distorted contents; and

an image correction unit for inserting image correction information into the encoded distorted contents transmitted from the encoding unit.
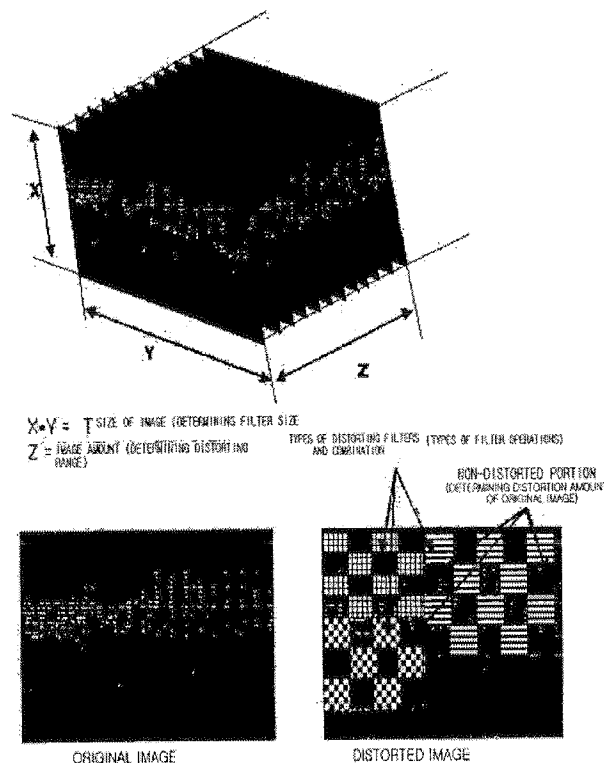
Fig. 9

Fig. 9 of the present invention

The present invention provides an apparatus for protecting copyrighted original image or contents. Background art of the specification describes downsides of traditional copyright

protection techniques including a DRM (Digital Right Management) and this invention overcame such downsides by providing a means to distort original image into distorted one, transmit the distorted image and then restore the original image. Thus, the present invention comprises four major elements: a distorting filter, encoding unit, decoding unit and contents recovering unit. Neither Guenebaud, Kudumakis, nor combination thereof teaches or discloses the claimed invention.
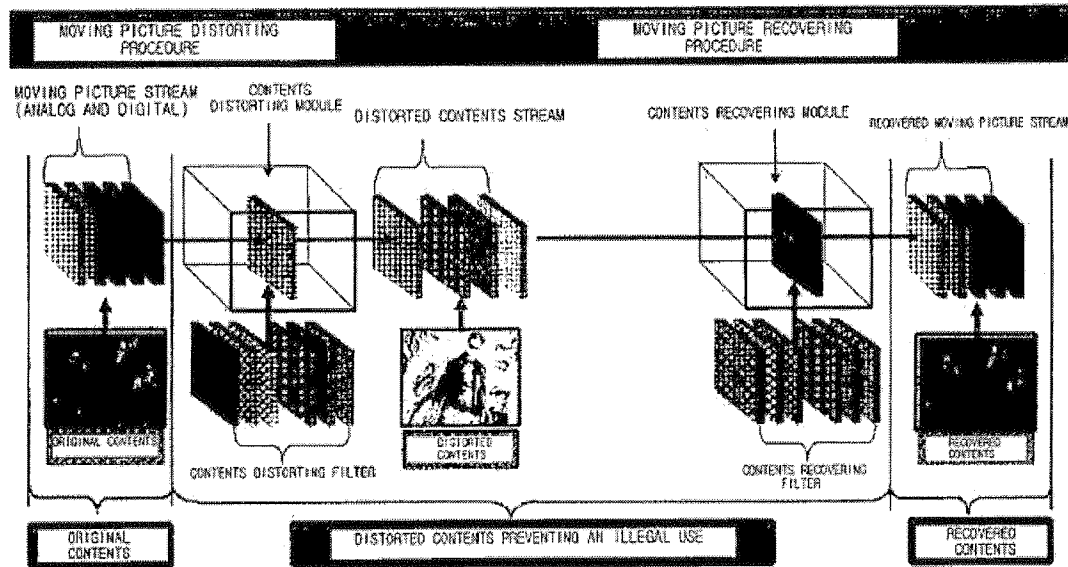
First, Guenenbaud provides a digital signal-processing module for encoding and decoding digital signals. Even if Guenenbaud mentioned "filtering unit," it does not disclose "distorting filter" to distort original image or contents. To the contrary, it is obvious from the context that Guenebaud's filtering does not involve the processing of "distorting." In addition, Guenebaud's filtering does not use the initial value and the random number as in the claimed invention.

Second, due to lack of distorting processing, Guenenbaud does not have the image correction unit of the present invention. The Examiner mentioned Guenebaud's inserting image date in paragraph 0112 corresponds to the image correction unit, but Guenebaud's inserting image is to process two streams (or more) of digital data simultaneously, not to insert image correction information into the encoded distorted contents. Guenebaud's inserting image supports that Guenebaud does not involve the processing of distorting images.

The combination of elements as claimed is not taught or suggested by the references alone or in combination. Furthermore, one of ordinary skill in that art, would not look to either Guenebaud or Kudumakis to achieve the advantages of the present invention. Combining Guenebaud and Kudumakis does not in any way teach or suggest the claimed invention.

Therefore, Applicant respectfully submits Claim 1 is now patentable.

Fig. 11

MOVING PICTURE DISTORTING PROCEDURE   MOVING PICTURE RECOVERING PROCEDURE

MOVING PICTURE STREAM (ANALOG AND DIGITAL)   CONTENTS DISTORTING MODULE   DISTORTED CONTENTS STREAM   CONTENTS RECOVERING MODULE   RECOVERED MOVING PICTURE STREAM

ORIGINAL CONTENTS   CONTENTS DISTORTING FILTER   DISTORTED CONTENTS   CONTENTS RECOVERING FILTER   RECOVERED CONTENTS

ORIGINAL CONTENTS   DISTORTED CONTENTS PREVENTING AN ILLEGAL USE   RECOVERED CONTENTS

Claim 6

Claim 6 depends on now patentable Claim 1 with additional limitations of "an initial value encrypting unit for encrypting the initial value information generated by the initial value generation unit. Again, neither Guenebaud nor Kudumakis discloses this kind of unit. Encrypting initial value

Therefore, Applicant respectfully submits Claim 6 is now patentable.

Other claims

Claims 2-12 depend on now patentable Claim 1 and thus, Applicant respectfully submits Claims 2-12 are now patentable.

Method Claims 13-26 include the limitations of Claim 1 and thus, the arguments for Claim 1 above apply to these claims as well. Therefore, Applicant respectfully submits Claims 13-26 are now patentable.
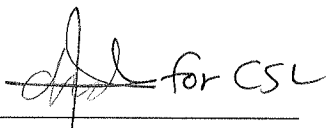
<u>CONCLUSION</u>

The applicant now believes that the rejections are obviated by this amendment, and the application is now in condition for allowance: therefore, reexamination, reconsideration and allowance of the claims are respectfully requested. If there are any additional comments or requirements from the examination, the applicant asks for a non-final office action.

Very truly yours,

Park Law Firm

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By: _for CSL_

Choongseop Lee, Ph.D.
Regis. No. 57,051

3255 Wilshire Blvd., Suite 1110
Los Angeles, California 90010
Tel: (213) 389-3777